



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,582	04/11/2006	Vincent Johannes Jacobus Van Montfort	NL031278US1	9571
24737 7590 01/16/2008 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			EXAMINER AYCHILLHUM, ANDARGIE M	
			ART UNIT 2841	PAPER NUMBER
			MAIL DATE 01/16/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/575,582	Applicant(s) VAN MONTFORT ET AL.	
	Examiner Andargie M. Aychillhum	Art Unit 2841	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 August 2007.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) 10 and 11 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 April 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Claims 10-12 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected group, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 08/27/2007.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 3, 4 and 7 are rejected under 35 U.S.C. 102 (e) as being anticipated by Mandler et al. (US 7,084,935 B2).

Regarding to claim 1, Mandler discloses an electronic device (figure 5) comprising a body of electrically insulating material (**30 and 20**) (column 4, lines

36-67) that is provided with a through-hole or cavity (**40**) (see figure **5B**), in which an electric component (**22**) (see figure **5C**) is present, the component (**22**) being attached to the body through an attachment layer (**25**) (column **4**, lines **22-24**), provided with a pattern of electrical conductors (column **7**, lines **27-30**) for electrically coupling the component (**22**) to other components and/or contact means for external coupling, at least one of which electrical conductors (column **7**, lines **27-30**) extends into the body and is electrically coupled to a further conductor (**25**) (**which extended to the bottom of body along a wall of cylindrical apertures 24**) (see figure **5C**) that is embedded in the body and is at least partially exposed to a surface of the body. (See figure **5C**).

Regarding to claims 3 and 7, Mandler discloses wherein the component/**LED (22)** (see figure **5**) is chosen from the group of optically active and optically sensitive components. (Column **3**, lines **44-57**) (**The LED is active and sensitive component**).

Regarding to claims 4, Mandler et al. discloses wherein the electrically insulating material of the body is an optically transparent material (column **3**, lines **54-62**) and there is a light path to the component/**LED (22)** through the body of transparent material. (Column **3**, lines **29-67**).

4. Claims 1-2, 5, 6, 8 and 9 are rejected under 35 U.S.C. 102 (e) as being anticipated by Ikuta et al. (US 2003/0169575 A1).

Regarding to claim 1, Ikuta et al. discloses an electronic device (figure 1) comprising a body of electrically insulating material (2) (see figure 1) that is provided with a through-hole or cavity (see figure 1), in which an electric component (6) (see figure 5C) is present, the component (4) being attached to the body (see figure 1) through an attachment layer (7), provided with a pattern of electrical conductors (2a) (see figure 1) for electrically coupling the component (4) to other components and/or contact means for external coupling, at least one of which electrical conductors (11) extends into the body and is electrically coupled to a further conductor (11) (**which extended to the bottom of body**) that is embedded in the body and is at least partially exposed to a surface of the body. (See figure 1).

Regarding to claim 2, Ikuta et al. further discloses wherein the body comprises embedded components (9 and 4), which are coupled electrically to the same pattern of electrical conductors (11). (See figure 1).

Regarding to claim 5, Ikuta et al. further teaches the pattern of conductors (2a1 and 2b1) extends in a first (**conductor layer 2a1**) and a

second plane (**conductors 2b1 layer**), said planes including an angle unequal to 180 degree. (Page 9, paragraph [0115]. (See figure 8).

Regarding to claim 6, Ikuta et al. further teaches wherein the conductors (**2a1 and 2b1**) at the first plane (**conductor layer 2a1**) include contact means for electrical coupling to an external device (**7**) and said component (**4**) is coupled to conductors located at the second plane (**conductor's 2b1 layer**). (Page 3, paragraph [0047].

Regarding to claim 8, Ikuta et al. further teaches wherein the electrical conductors (**2a1, 2b1 and 15**) are mechanically anchored in the body and/or in the attachment layer. (Page 3, paragraph [0047]).

Regarding to claim 9, Ikuta et al. further teaches further provided with an integrated shield (**14**). (Page 5, paragraph [0066]).


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andargie M. Aychillhum whose telephone number is (571) 270-1607. The examiner can normally be reached on (Mon-Fri from 8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A.A.
January 10th, 2008


Diego Gutierrez
Supervisory Patent Examiner
Technology Center 2800